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SEQUENCE LISTING

<110> Takada Pharmaceutical Company Limited

<120> Antibody and its use

<130> G05-0070

<140> PCT/JP2004/007667

<141> 2004-05-27

<150> JP2003-151577

<151> 2003-05-28

<160> 20

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<211> 14

<212> PRT

<213> Artificial Sequence

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<223> immunogen

<400> 1

Trp Tyr Lys His Val Ala Ser Pro Arg Tyr His Thr Val Cys

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<210> 2

<211> 14

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Cys His Thr Val Gly Arg Ala Ala Gly Leu Leu Met Gly Leu

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<211> 23

<212> PRT

<213> Homo sapiens

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Ala Gly Leu Leu Met Gly Leu

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<211> 30

<212> PRT

<213> Homo sapiens

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Ala Gly Leu Leu Met Gly Leu Arg Arg Ser Pro Tyr Leu Trp

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<211> 23

<212> PRT

<213> Rattus norvegicus

<400> 6

Trp Tyr Lys His Val Ala Ser Pro Arg Tyr His Thr Val Gly Arg Ala

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Ser Gly Leu Leu Met Gly Leu

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<211> 30

<212> PRT

<213> Rattus norvegicus

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Ser Gly Leu Leu Met Gly Leu Arg Arg Ser Pro Tyr Leu Trp

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<211> 23

<212> PRT

<213> Mus musculus

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Ser Gly Leu Leu Met Gly Leu

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<211> 30

<212> PRT

<213> Mus musculus

<400> 9

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Ser Gly Leu Leu Met Gly Leu Arg Arg Ser Pro Tyr Gln Trp

20 25 30

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<211> 23

<212> PRT

<213> Sus scrofa

<400> 10

Trp Tyr Lys His Thr Ala Ser Pro Arg Tyr His Thr Val Gly Arg Ala

1 5 10 15

Ala Gly Leu Leu Met Gly Leu

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<211> 30

<212> PRT

<213> Sus scrofa

<400> 11

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Ala Gly Leu Leu Met Gly Leu Arg Arg Ser Pro Tyr Met Trp

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<211> 14

<212> PRT

<213> Artificial Sequence

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<223> Biotin-labeled peptide

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<221> MOD_RES

<222> 14

<223> Xaa means biotin-labeled Cys modified with Biotin (Long Arm) Maleimide (Vector Laboratories).

<400> 12

Trp Tyr Lys His Val Ala Ser Pro Arg Tyr His Thr Val Xaa

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<210> 13

<211> 14

<212> PRT

<213> Artificial Sequence

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<223> Biotin-labeled peptide

<220>

<221> MOD_RES

<222> 1

<223> Xaa means biotin-labeled Cys modified with Biotin (Long Arm) Maleimide (Vector Laboratories).

<400> 13

Xaa His Thr Val Gly Arg Ala Ala Gly Leu Leu Met Gly Leu

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<210> 14

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Biotin-labeled peptide

<220>

<221> MOD_RES

<222> 1

<223> Xaa means biotin-labeled Cys modified with Biotin (Long Arm) Maleimide
(Vector Laboratories).

<400> 14

Xaa Ala Ser Gly Leu Leu Met Gly Leu Arg Arg Ser Pro Tyr Leu Trp

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<210> 15

<211> 328

<212> PRT

<213> Homo sapiens

<400> 15

Met Asp Asn Ala Ser Phe Ser Glu Pro Trp Pro Ala Asn Ala Ser Gly

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Pro Asp Pro Ala Leu Ser Cys Ser Asn Ala Ser Thr Leu Ala Pro Leu

20

25

30

Pro Ala Pro Leu Ala Val Ala Val Pro Val Val Tyr Ala Val Ile Cys
 35 40 45
 Ala Val Gly Leu Ala Gly Asn Ser Ala Val Leu Tyr Val Leu Leu Arg
 50 55 60
 Ala Pro Arg Met Lys Thr Val Thr Asn Leu Phe Ile Leu Asn Leu Ala
 65 70 75 80
 Ile Ala Asp Glu Leu Phe Thr Leu Val Leu Pro Ile Asn Ile Ala Asp
 85 90 95
 Phe Leu Leu Arg Gln Trp Pro Phe Gly Glu Leu Met Cys Lys Leu Ile
 100 105 110
 Val Ala Ile Asp Gln Tyr Asn Thr Phe Ser Ser Leu Tyr Phe Leu Thr
 115 120 125
 Val Met Ser Ala Asp Arg Tyr Leu Val Val Leu Ala Thr Ala Glu Ser
 130 135 140
 Arg Arg Val Ala Gly Arg Thr Tyr Ser Ala Ala Arg Ala Val Ser Leu
 145 150 155 160
 Ala Val Trp Gly Ile Val Thr Leu Val Val Leu Pro Phe Ala Val Phe
 165 170 175
 Ala Arg Leu Asp Asp Glu Gln Gly Arg Arg Gln Cys Val Leu Val Phe
 180 185 190
 Pro Gln Pro Glu Ala Phe Trp Trp Arg Ala Ser Arg Leu Tyr Thr Leu
 195 200 205
 Val Leu Gly Phe Ala Ile Pro Val Ser Thr Ile Cys Val Leu Tyr Thr
 210 215 220
 Thr Leu Leu Cys Arg Leu His Ala Met Arg Leu Asp Ser His Ala Lys
 225 230 235 240
 Ala Leu Glu Arg Ala Lys Lys Arg Val Thr Phe Leu Val Val Ala Ile
 245 250 255
 Leu Ala Val Cys Leu Leu Cys Trp Thr Pro Tyr His Leu Ser Thr Val

260	265	270
Val Ala Leu Thr Thr Asp Leu Pro Gln Thr Pro Leu Val Ile Ala Ile		
275	280	285
Ser Tyr Phe Ile Thr Ser Leu Ser Tyr Ala Asn Ser Cys Leu Asn Pro		
290	295	300
Phe Leu Tyr Ala Phe Leu Asp Ala Ser Phe Arg Arg Asn Leu Arg Gln		
305	310	315
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<210> 16

<211> 984

<212> DNA

<213> Homo sapiens

<400> 16

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ccagttgtct acgcggtgat ctgcgccgtg ggtctggcgg gcaactccgc cgtgctgtac    180
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<210> 17

<211> 333

<212> PRT

<213> Homo sapiens

<400> 17

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 His Asn Ala Thr Phe Ser Glu Pro Leu Pro Phe Leu Tyr Val Leu Leu
 35 40 45
 Pro Ala Val Tyr Ser Gly Ile Cys Ala Val Gly Leu Thr Gly Asn Thr
 50 55 60
 Ala Val Ile Leu Val Ile Leu Arg Ala Pro Lys Met Lys Thr Val Thr
 65 70 75 80
 Asn Val Phe Ile Leu Asn Leu Ala Val Ala Asp Gly Leu Phe Thr Leu
 85 90 95
 Val Leu Pro Val Asn Ile Ala Glu His Leu Leu Gln Tyr Trp Pro Phe
 100 105 110
 Gly Glu Leu Leu Cys Lys Leu Val Leu Ala Val Asp His Tyr Asn Ile
 115 120 125
 Phe Ser Ser Ile Tyr Phe Leu Ala Val Met Ser Val Asp Arg Tyr Leu
 130 135 140

Val Val Leu Ala Thr Val Arg Ser Arg His Met Pro Trp Arg Thr Tyr
 145 150 155 160
 Arg Gly Ala Lys Val Ala Ser Leu Cys Val Trp Leu Gly Val Thr Val
 165 170 175
 Leu Val Leu Pro Phe Phe Ser Phe Ala Gly Val Tyr Ser Asn Glu Leu
 180 185 190
 Gln Val Pro Ser Cys Gly Leu Ser Phe Pro Trp Pro Glu Gln Val Trp
 195 200 205
 Phe Lys Ala Ser Arg Val Tyr Thr Leu Val Leu Gly Phe Val Leu Pro
 210 215 220
 Val Cys Thr Ile Cys Val Leu Tyr Thr Asp Leu Leu Arg Arg Leu Arg
 225 230 235 240
 Ala Val Arg Leu Arg Ser Gly Ala Lys Ala Leu Gly Lys Ala Arg Arg
 245 250 255
 Lys Val Thr Val Leu Val Leu Val Val Leu Ala Val Cys Leu Leu Cys
 260 265 270
 Trp Thr Pro Phe His Leu Ala Ser Val Val Ala Leu Thr Thr Asp Leu
 275 280 285
 Pro Gln Thr Pro Leu Val Ile Ser Met Ser Tyr Val Ile Thr Ser Leu
 290 295 300
 Ser Tyr Ala Asn Ser Cys Leu Asn Pro Phe Leu Tyr Ala Phe Leu Asp
 305 310 315 320
 Asp Asn Phe Arg Lys Asn Phe Arg Ser Ile Leu Arg Cys
 325 330

<210> 18

<211> 999

<212> DNA

<213> Homo sapiens

<400> 18

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<210> 19

<211> 329

<212> PRT

<213> *Rattus norvegicus*

<400> 19

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Gly Gly Pro Phe Leu Gly Cys Pro Asn Glu Ser Asn Pro Ala Pro Leu

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35	40	45
Ile Cys Ala Val Gly Leu Ala Gly Asn Ser Ala Val Leu Tyr Val Leu		
50	55	60
Leu Arg Thr Pro Arg Met Lys Thr Val Thr Asn Val Phe Ile Leu Asn		
65	70	75
Leu Ala Ile Ala Asp Glu Leu Phe Thr Leu Val Leu Pro Ile Asn Ile		
85	90	95
Ala Asp Phe Leu Leu Arg Arg Trp Pro Phe Gly Glu Val Met Cys Lys		
100	105	110
Leu Ile Val Ala Val Asp Gln Tyr Asn Thr Phe Ser Ser Leu Tyr Phe		
115	120	125
Leu Ala Val Met Ser Ala Asp Arg Tyr Leu Val Val Leu Ala Thr Ala		
130	135	140
Glu Ser Arg Arg Val Ser Gly Arg Thr Tyr Gly Ala Ala Arg Ala Val		
145	150	155
Ser Leu Ala Val Trp Ala Leu Val Thr Leu Val Val Leu Pro Phe Ala		
165	170	175
Val Phe Ala Arg Leu Asp Glu Glu Gln Gly Arg Arg Gln Cys Val Leu		
180	185	190
Val Phe Pro Gln Pro Glu Ala Phe Trp Trp Arg Ala Ser Arg Leu Tyr		
195	200	205
Thr Leu Val Leu Gly Phe Ala Ile Pro Val Ser Thr Ile Cys Ala Leu		
210	215	220
Tyr Ile Thr Leu Leu Cys Arg Leu Arg Ala Ile Gln Leu Asp Ser His		
225	230	235
Ala Lys Ala Leu Asp Arg Ala Lys Lys Arg Val Thr Leu Leu Val Val		
245	250	255

Ala Ile Leu Ala Val Cys Leu Leu Cys Trp Thr Pro Tyr His Leu Ser
 260 265 270
 Thr Ile Val Ala Leu Thr Thr Asp Leu Pro Gln Thr Pro Leu Val Ile
 275 280 285
 Gly Ile Ser Tyr Phe Ile Thr Ser Leu Ser Tyr Ala Asn Ser Cys Leu
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<210> 20

<211> 987

<212> DNA

<213> *Rattus norvegicus*

<400> 20

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